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Stuart G. Hibben

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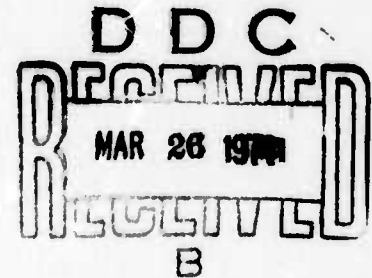


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## INTRODUCTION

This is a preliminary bibliography of Soviet material relating to internal wave problems which was retrieved during the last quarter of 1973. The list is not a comprehensive coverage, but rather represents the kind of material currently appearing in this field.

Entries are listed alphabetically by author; parentheses indicate a secondary source.

1. Aleksandrov, A. A., and M. S. Trakhtengerts. Sound propagation velocity, isochoric thermal capacity, and coefficient of isothermal compression for water at atmospheric pressure. Teploenergetika, no. 4, 1973, 57-60 (RZhMekh, 9/73, no. 9B793)
2. Aleksandrov, A. P., and E. S. Vayndruk. Local characteristics of ultrasonic scattering in the aerated subsurface ocean layer, from vertical sounding. IN: Tr. 4-y Vses. shkoly-seminar po stat. gidroakustike. Novosibirsk, 1973, 148-157 (RZhF, 8/73, no. 8Zh637)
3. Avaliani, D. I., and S. S. Kutateladze. Interaction of light with a turbulent liquid flow. ZhPMTF, no. 4, 1973, 115-123.
4. Babayev, A. B., I. A. Pavlova, and V. P. Prakhov. Patterns of reflection from a sea surface. IN: Tr. Mosk. energ. in-ta. Radiopriyemnyye ustroystva. No. 110, 1972, 77-79.
5. Bass, F. G., et al. Rasseyaniye voln na statisticheskiy nerovnoy poverkhnosti (Wave scattering on a statistically uneven surface). Moskva, Izd-vo nauka, 1972, 320 p. (RBL, no. 4, 1973, no. 408)
6. Batrakov, Yu. G. On blanking of a PPI display by r-f waves reflected from a surrounding (water) surface. IN: Tr. Mosk. in-ta inzh. zemleustroystva. No. 63, 1973, 100-105 (RZhF, 9/73, no. 9Zh206)
7. Bazarov, S. M., and Yu. L. Sorokin. On a theory of integrating equations of the laminar boundary layer of an incompressible fluid. IN: Gidromekhanika. Resp. mezhved. sbornik, no. 23, 1973, 47-54.

8. Belonosev, S. M., and I. Kh. El'-Sirafi. Solution of homogeneous Navier-Stokes equations in a half-plane with a given velocity at the boundary. IN: Sb. Analit. metody v teorii fil'tratsii i teploprovodnosti. Kiyev, 1973, 70-84 (RZhMekh, 11/73, no. 11B586)
9. Belyayev, V. S., M. M. Lyubimtsev, and R. V. Ozmidov. On kinetic energy and temperature dissipation rate in the ocean. FAiC, no. 11, 1973, 1179-1185.
10. Borshchevskiy, Yu. T., E. M. Litvinenko, and V. G. Nakhaychuk. Kinematics of a turbulent boundary layer. MZhiG, no. 5, 1973, 34-40.
11. Brekhovskikh, L. M. Volny v sloistyykh sredakh (Waves in layered media). AN SSSR, Akust. in-t. Moskva, Izd-vo nauka, 1973, 343 p. (KL, 37/73, no. 30810)
12. Brekhovskikh, L. M., V. V. Goncharov, V. M. Kurtepov, and K. A. Naugol'nykh. Radiation of infrasound into the atmosphere by surface waves in the ocean. FAiO, no. 9, 1973, 899-907.
13. Bukatov, A. Ye. Effect of ice cover on internal waves. MGI, no. 1, 1972, 53-64.
14. Bukatov, A. Ye., and L. V. Cherkesov. Generation of internal waves by near-bottom (sic) disturbances. Morsk. gidrofiz. issled., no. 1(60), 1973, 43-53 (RZhGeofiz, no. 12V64.1, 1973)
15. Bykova, L. P. Experimental calculation of surface boundary layer characteristics for given roughness parameters of the underlying surface. IN: Trudy GGO, no. 297, 1973, 12-19. (RZhGeofiz, 12/73, no. 12B386)



16. Cherkesov, L. V. Poverkhnostnyye i vnutrenniye volny (Surface and internal waves). Kiyev, Naukova dumka, 1973. 247 p.\*
17. Ditman, A. O. Electromagnetic modelling of circulating and vortex flows of an ideal incompressible fluid. IN: Sb. Mat. model. potentsialn. poley. Kiyev, 1972, 32-52 (RZhMekh, 9/73, no. 9B407)
18. Dotsenko, S. F. Internal waves from moving disturbances in a sea with a nonuniform upper layer. MGI, no. 1, 1972, 65-75.
19. Dotsenko, S. F., and L. V. Cherkesov. Generation of internal waves by a travelling pressure field in a sea with a discontinuity layer. Ibid., no. 3, 1972, 25-38.
20. Dotsenko, S. F. On internal waves generated by a horizontally moving source. Ibid., no. 2, 1973, 22-34. (RZhMekh, 12/73, no. 12B419)
21. Dotsenko, S. F., and L. V. Cherkesov. Effect of continuous change in liquid density on waves generated by moving pressure surfaces. MZhiG, no. 6, 1973, 55-62.
22. Faddeyev, Yu. I. Some properties of velocity potential for arbitrary motion of a variable-form body in an unbounded incompressible fluid. IN: Tr. Leningr. korablestroito. in-ta, no. 80, 1972, 93-97 (RZhMekh, 9/73, no. 9B426)
23. Fedosenko, V. S. Effect of Coriolis force on nonstationary waves generated by a moving excitation source. MGI, no. 1, 1973, 66-74 (RZhMekh, 12/73, no. 12B407)

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\*This book is presently in translation.



24. Filonov, A. Ye. Internal waves and present concepts of their effects on oceanographic investigations of certain physical fields in the ocean. Kompleknyye issledovaniya prirody okeana, no. 4, 1973, 70-82.
25. Fizicheskiye metody issledovaniya okeana (Physical methods for studying the ocean). Sbornik statey. Vladivostok, 1973, 94 p. (KL, 42/73, no. 36093)
26. Garnaker'yan, A. A., K. L. Afanas'yev, V. T. Lobach, and V. V. Timonov. Measuring parameters of sea waves by an airborne r-f method. Metr. i gidrol., no. 12, 1973, 102-108.
27. Gatkin, N. G. Algorithms for optimal space-time processing of random fields. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 168-200 (RZhF, 8/73, no. 8Zh658)
28. Gavrikov, V. K., and A. V. Kats. Stimulated scattering of sound at the interface of two media. AN UkrSSR. In-t radiofiz. i elektron., preprint no. 24, Khar'kov, 1973 (RZhF, 11/73, no. 11Zh631)
29. Gavrilov, A. S. Structure of the atmospheric boundary layer over a surface with arbitrary roughness properties. Metr. i gidrol., no. 12, 1973, 39-42.
30. Gel'fand, B. Ye., S. A. Gubin, B. S. Kogarko, and S. M. Kogarko. Study of compression waves in a liquid-gas bubble mixture. DAN SSSR, v. 213, no. 5, 1973, 1043-1046.
31. Girdyuk, G. V., and S. P. Malevskiy-Malevich. Method of computing the effective radiation from an ocean surface. Trudy Glav. geofiz. obs., no. 297, 1973, 124-132. (RZhGeofiz, no. 12B235, 1973)

32. Gorbatov, Yu. I., and A. A. Pivovarov. On the theory of T,S analysis of water masses under intensive turbulence exchange in the ocean. IN: Sb. Kompleks. issled. prirody okeana. Mosk. un-t, no. 4, 1973, 101-110 (RZhMekh, 11/73, no. 11B474)
33. Grigolyuk, E. I., and A. G. Gorshkov. Determining hydrodynamic loading from interaction of weak nonstationary pressure waves with flexible shells. IN: Sb. Kolebaniya izluch. i dempfirovaniye uprug. struktur. Moskva, Izd-vo nauka, 1973, 3-11 (RZhF, 8/73, no. 8Zh563)
34. Gulin, E. P. Propagation of a modulated noise signal in a multi-beam channel with constant parameters. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 139-147 (RZhF, 9/73, no. 9Zh523)
35. Gulin, E. P. Coherence of the acoustic field for sound reflected from a wavy sea surface. DAN SSSR, v. 212, no. 5, 1973, 1082-1085.
36. Gurov, V. V., A. M. Gusev, and G. G. Chunduzha. Methodology and studies of small-scale turbulence near a sea-atmosphere interface. IN: Sb. Kompleks. issled. prirody okeana, Moskva, Mosk. un-t, no. 4, 1973, 110-116 (RZhMekh, 11/73, no. 11B889)
37. Gurvich, A. A., and N. S. Time. Using a laser to evaluate the high frequency portion of a turbulence spectrum. MZhiG, no. 6, 1973, 142-145.
38. Gutshabash, S. D. Optical regime of a two-layer sea-atmosphere medium. IN: Sb. Optika okeana i atmosfery. Leningrad, Izd-vo nauka, 1972, 44-56 (RZhF, 6/73, no. 6D882)

39. Ivanov, A. P., and V. Ye. Shemshura. Method of evaluating absorptive index of light in the sea. IN: Sb. Mor. gidrofiz. issled., no. 1(60), Sevastopol', 1973, 110-118 (RZhGeofiz, 12/73, no. 12V89) (cf. also ibid., 189-199)
40. Ivanov, Yu. A., and Ye. G. Morozov. A temperature variation analysis of the upper ocean layer. FAiO, no. 10, 1973, 1069-1076.
41. Kalmykov, A. I., A. S. Kurekin, V. Yu. Levantovskiy, I. Ye. Ostrovskiy, and V. V. Pustovoytenko. Characteristics of radio signals, dispersed by the sea surface in directions close to that of a mirror image. IVUZ Radiofiz, no. 10, 1973, 1498-1503.
42. Karasev, I. F. Effect of flow turbulence on the accuracy of integrating velocities over a vertical. IN: Tr. Gos. gidrolog. in-t, no. 202, 1973, 64-73 (RZhMekh, 9/73, no. 9B899)
43. Karabashev, G. S., and A. N. Solov'yev. Photoluminescence of sea water as an indicator of dynamic processes in the ocean. Okeanologiya, no. 4, 1973, 597-601. (RZhGeofiz, 12/73, no. 12V88)
44. Karpman, V. I. Nelineynnye volny v dispergiruyushchikh sredakh (Nonlinear waves in dispersed media). Moskva, Izd-vo nauka, 1973, 175 p. (RBL, 8/73, no. 367)
45. Keondzhyan, V. P., and A. S. Sarkisyan. Numerical model for calculating transient flows in the sea. IN: Seminar in-ta prikl. mat. Tbilis. un-t. Annotatsii dokl., no. 7, 1973, 53-57. (RZhMekh, 10/73, no. 10B370)
46. Kiseleva, O. A. Experimental research of the two-dimensional energy spectrum of wind waves in the sea. Morskiye gidrofizicheskiye issledovaniya, no. 3, 1972, 138-148.

47. Kogan, V. Ya. Possibility of using sound scattering phenomena in the sea for oceanological measurements. IN: Sb. Fiz. metody issled. okcana. Vladivostok, 1973, 38-43 (RZhF, 11/73, no. 11Zh787)
48. Kolesnikov, A. G., V. V. Yefimov, and G. N. Khristoforov. Characteristics of velocity field and wave motion in the upper ocean layer. IN: Sb. Vzaimodeystviye atmosf. i okeana. Leningrad, 1972, 61-64 (RZhGeofiz, 11/73, no. 11V51)
49. Kompleksnyye issledovaniya prirody okcana (Complex studies on the nature of the ocean). Moskva, Izd-vo mosk. un-ta, no. 4, 1973, 212 p. (KL, 35/73, no. 28855)
50. Kondrashev, S. Yc. Study on polarization of light scattered by sea water. IN: Optika okcana i atmosfery. Leningrad, Izd-vo nauka, 1972, 136-148 (RZhF, 6/73, no. 6D884)
51. Kononkova, G. Ye., V. A. Razumov, and I. F. Shishkin. Decay of wind waves in a medium with natural turbulence. VMU, no. 4, 1973, 414-421.
52. Konyayev, K. V., and K. D. Sabinin. Resonance hypothesis of internal wave generation in the sea. DAN SSSR, v. 210, no. 6, 1973, 1342-1345. (RZhGeofiz, 10/73, no. 10V63)
53. Kopelevich, O. V., and V. I. Burenkov. Statistical characteristics of optical scattering index by sea water. IN: Sb. Optika okcana i atmosfery. Leningrad, Izd-vo nauka, 1972, 126-136 (RZhGeofiz, 6/73, no. 6D881)

54. Kramareva, L. K. Kinematic characteristics of undulating disturbances in the Kuroshio water system and their connection with Rossby waves. IN: Izv. Tikhookean. NII ryb. kh-va i okeanogr., no. 89, 1973, 138-140 (RZhGeofiz, 10/73, no. 10V54)
55. Kramareva, L. K. Problem of Rossby wave stability in a horizontally nonuniform ocean. IN: ibid., 141-145 (RZhGeofiz, 10/73, no. 10V55)
56. Krasnyuk, N. P., V. Sh. Lande, and I. I. Megretskaya. Effect of radar resolution on the spectral width of a microwave signal, scattered by the sea surface. RiE, no. 10, 1972, 2182-2184.
57. K voprosu o neustanovivshetsya kharaktere vetrovogo volneniya v okeane (On the transient character of wind waves in the ocean). IN: Sb. Mor. gidrofiz. issled., no. 2(61), Sevastopol', 1973, 77-91 (RZhMekh, 12/73, no. 12B421)
58. Kamenkovich, V. M. Osnovy dinamiki okeana (Fundamentals of ocean dynamics). Leningrad, Gidrometeoizdat, 1973. 240 p.
59. Legkiy, V. M., A. S. Makarov, and Yu. D. Koval'. Experimental investigation of the local heat emission from a plate in the transition region from a laminar to turbulent boundary layer. IN: Teplofiz. i teplotekhnika. Resp. mezhved. sb., vyp. 23, 1973, 106-109 (RZhMekh, 11/73, no. 11B719)
60. Li, M. E., T. I. Narusevich, and N. G. Neuymin. On the possibility of estimation of the nature of low transparency layers in the sea through optical measurements. Mor. gidrofiz. issl., no. 1, 1972, 123-130.

61. Lyul'ka, V. A. Free motion of a solid body in the flow of a viscous incompressible fluid. Dissipation of kinetic energy of the viscous fluid. ZhVMMF, no. 5, 1973, 1347-1351.
62. Medvedev, S. N. Reproducing a velocity profile from data on the time structure of an acoustic signal. IN: Sb. Fiz. metody issled. okeana. Vladivostok, 1973, 15-18. (RZhGeofiz., 12/73, no. 12V94)
63. Monin, A. S. On the hydrothermodynamics of the ocean. FAiO, no. 10, 1973, 1063-1068.
64. Moroz, T. A. Correlation characteristics of sea reverberation from an acoustic-scattering layer. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 84-92. (RZhF, 8/73, no. 8Zh634)
65. Nedelyayev, A. M., V. P. Prakhov, and T. A. Osetrova. Determination of geometrical characteristics of the sea surface from a signal scattered by it. IN: Trudy Moskovskogo ordena Lenina Energeticheskogo instituta. Radiopriyemnyye ustroystva. No. 10, Moskva, 1972, 80-83.
66. Netyukhaylo, A. P., I. A. Sherenkov, A. I. Kobzar', V. M. Kuz'menko, and E. D. Telezhkin. Balance of turbulent energy in the boundary layer between fluids with different density. Vodosnabzh. kanaliz., gidrotekhn. sooruzh. Resp. mezhved. nauch.-tekhn. sb. no. 16, 1973, 87-92. (RZhMekh, 12/73, no. 12B853)
67. Nikolayev, S. Internal waves in the seas and oceans. Morskoy sbornik, no. 10, 1973, 99-102.



68. Oboukhov, A. M. On the problem of nonlinear interactions in fluid dynamics. Gerlands Beitr. Geophysik, Leipzig, v. 82, 1973, no. 4, 282-290.
69. Ol'shevskiy, V. V., and V. F. Pelevin. Effect of an unpredicted component of absorption in an aqueous medium on the cross correlation between reference and useful signals. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike, Novosibirsk, 1973, 36-46. (RZhF, 8/73, no. 8Zh657)
70. Pantov, Ye. N., et al. Osnovy teorii dvizheniya podvodnykh apparatov (Principles of the theory of motion of underwater apparatus). Leningrad, Sudostroyeniye, 1973, 211 p. (RBL, 8/73, no. 755)
71. Pavlov, V. I. Analytical characteristics of the velocity of wave propagation over a fluid surface. VMU, no. 4, 1973, 476-481.
72. Perel'man, T. L., and V. A. Sosinovich. Finite-dimensional distribution function in turbulence theory. TMiF, v. 17, no. 1, 1973, 131-141.
73. Petrov, V. V. Quantization of a hydroacoustic signal. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 93-95. (RZhF, 9/73, no. 9Zh529)
74. Petrovskiy, V. S. Array of plane converters as a filter of spatial frequencies of turbulent pressure pulsations. Akusticheskiy zhurnal, no. 5, 1973, 743-753.
75. Podgayets, R. M., and Yu. I. Nyashin. Solution of the non-stationary problem of flow of an incompressible linearly-viscous medium by means of the variation principle. IN: Sb. nauch. tr. Perm. politekhn. in-t, no. 127, 1973, 115-120 (RZhMekh, 11/73, no. 11E587)



76. Pozdynin, V. D. Analysis of empirical distributions of flow velocity in the ocean. FAiO, no. 10, 1973, 1105-1110.
77. Preobrazhenskiy, L. Yu. Estimating components of turbulent energy balance in the surface boundary layer over water, from experimental data. IN: Tr. Gl. geofiz. observ., no. 297, 1973, 41-50. (RZh Geofiz, 12/73, no. 12B384)
78. Psavko, V. I., and V. R. Goncharenko. Problem of nonlinear interaction of acoustic waves in a fluid. IN: Tr. Taganrog. radiotekhn. in-ta, no. 34, 1973, 45-49 (RZhF, 6/73, no. 6Zh380)
79. Rokotov, S. P. On modelling of an ocean medium as a transmission channel for telemetric information. IN: Tr. Dal'nevost. politekh. in-ta, v. 81, no. 1, 1972(1973), 60-67 (RZhF, 8/73, no. 8Zh640)
80. Rozhdestvenskiy, B. I. On applicability of the difference method in solution of Navier-Stokes equations at large Reynolds numbers. DAN SSSR, v. 211, no. 2, 1973, 308-311.
81. Ryzhkov, S. V. Heat transfer in the film of a fluid flowing laminarly on a surface with variable temperature. IN: Sudostr. i mor. sochrzh. Resp. mezhved. temat. nauch.-tekhn. sb., no. 21, 1973, 7-14. (RZhMekh, 11/73, no. 11B716)
82. Sadovskiy, V. S. Some problems of plane vortex flows of an incompressible fluid. IN: Uch. zap. Tsentr. aerogidrodinam. in-ta, v. 4, no. 3, 1973, 75-82. (RZhMekh, 11/73, no. 11B393)
83. Samokhin, V. N. Development of a plane-parallel symmetrical boundary layer from sudden motion onset. IN: Tr. Mosk. mat. o-va. no. 28, 1973, 117-133 (RZhMekh, 9/73, no. B546)

84. Shevtsov, V. P. On calculation of the time structure of acoustic signals propagating in the ocean. IN: Sb. Fiz. metody issled. okeana. Vladivostok, 1973, 48-58 (RZhGeofiz, 12/73, no. 12V95)
85. Shevtsov, V. P., and A. P. Volkov. Method for studying the vertical structure of ocean currents from a drifting ship. Okeanologiya, no. 6, 1973, 1108-1113.
86. Shifrin, K. S., O. V. Kopelevich, V. I. Burenkov, and Yu. L. Mashtakov. Using light scattering indices for the study of marine suspensions. IN: Sb. Optika okeana i atmosfery, Leningrad, Izd-vo nauka, 1972, 25-44 (RZhF, 6/73, no. 6D883)
87. Shifrin, K. S., and I. N. Salganik. Tablitsy po svetorasseyaniyu. T. 5. Rasseyaniye sveta modelyami morskoy vody (Light scattering tables. V. 5. Light scattering) Leningrad, Gidrometeoizdat, 1973, 219 p. (RZhGeofiz, 10/73, no. 10V85 K)
88. Shvets, Yu. I., Yu. N. Zdorenko, and S. I. Pavlyuk. On a method for plotting the plane potential flow of an incompressible fluid. IN: Teplofiz. i teplotekhnika. Resp. mezhved. sb., no. 23, 1973, 77-79 (RZhMekh, 11/73, no. 11B396)
89. Solodovnikov, V. V., and V. F. Biryukov. Optimum processing of non-stationary random hydroacoustic signals. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 23-32 (RZhF, 9/73, no. 9Zh528)
90. Sorokodum, Ye. D. On forces originating in the acoustic boundary layer of the Zhukovskiy symmetric profile. IN: Tr. Taganrog. radiotekhn. in-ta, no. 34, 1973, 106-114 (RZhF, 6/73, no. 6Zh383)

91. Sorokodum, Ye. D., V. I. Timoshenko, and G. V. Shvets. Dynamics of the development of acoustic flows around oscillating bodies at large amplitudes. IN: Ibid., 96-105. (RZhF, 6/73, no. 6Zh382)
92. Sretenskiy, L. L. Teoriya volnovykh dvizheniy zhidkosti (Theory of the wave motions of fluids). Izd-vo nauka (to be published in the last quarter of 1974)
93. Taradanov, L. Ya. On computation of correlation functions of echo signals from a finite-height circular cylinder. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike, Novosibirsk, 1973, 241-243 (RZhF, 8/73, no. 8Zh663)
94. Tselykovskiy, A. F. Two-dimensional [fluid] model of a parametric generator with a backward wave. IN: Tr. Ryazan. radiotekhn. in-ta, no. 37, 1972, 46-56 (RZhF, 8/73, no. 8D978)
95. Timofeyev, N. A., and Ye. N. Shutova. Angular structure of the outgoing shortwave radiation field over oceans. Morsk. gidrofiz. issled., no. 2(61), 1973, 132-141 (RZhGeofiz, no. 12B234, 1973)
96. Vakar, K. B., Ye. V. Kirillov, and N. I. Ovehinnikov. Energy characteristics of long-range reverberation. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 105-109 (RZhF, 8/73, no. 8Zh635)
97. Vasil'yev, O. F., and V. I. Kvon. Investigation of stratified flows. IN: Gidrotekhn. str-vo, no. 8, 1973, 48-51 (RZhMekh, 12/73, no. 12B458)
98. Vaynberg, B. R., and V. G. Maz'ya. Problem of stationary oscillations of a fluid layer with variable depth. IN: Tr. Mosk. mat. o-va, no. 28, 1973, 57-74 (RZhMekh, 9/73, no. 9B417)

99. Voinov, O. V., and A. G. Petrov. Motion (from a state of rest) of deforming bodies in a perfect fluid. DAN SSSR, v. 212, no. 5, 1973, 1086-1089.
100. Vorob'yev, V. I. Application of spectral analysis in the processing of hydroacoustic signals. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike, Novosibirsk, 1973, 251-255 (RZhF, 9/73, no. 9Zh534)
101. Yampol'skiy, D. A. Features of the energy balance of inertial oscillations in the velocity field of the ocean. FAiO, no. 11, 1973, 1216-1220.
102. Yeliseyevnin, V. A. Longitudinal frequency correlation of fluctuations in the parameters of plane waves propagating in a turbulent medium. Akusticheskiy zhurnal, no. 6, 1973, 830-840.
103. Zakharov, V. M., V. I. Pavlov, and V. Ye. Rokotyan. Determination of geometrical elements of the sea surface by lidar. IN: Trudy TsAO, no. 105, 1973, 69-74.
104. Zaslavskiy, M. M., S. A. Kitaygorodskiy, and L. G. Lobysheva. A linear model for the spatial spectrum of surface gravity waves generated by wind. FAiO, no. 10, 1973, 1077-1087.
105. Zayezdnyy, A. M. Classification of signals propagating in an aqueous medium, based on processing them according to structural properties. IN: Tr. 4-y Vses. shkoly-seminara po stat. gidroakustike. Novosibirsk, 1973, 14-22 (RZhF, 8/73, no. 8Zh655)
106. Zhigulev, V. N. On the problem of propagation of disturbances in turbulent flows. IN: Sb. Chisl. metody mekh. splosh. sredy. Novosibirsk, v. 4, no. 2, 1973, 51-61 (RZhMekh, 12/73, no. 12B850)

107. Zhivotovskiy, L. A. Polarization state of signals reflected from a group of independently fluctuating targets. RiE, no. 10, 1972, 2184-2186.